

## CLAIMS

1. An electric power converter including a main circuit unit including a switching unit that performs switching from a DC voltage including a DC voltage generated from an AC voltage to an AC voltage having an arbitrary frequency and an arbitrary voltage and that outputs the AC voltage; and a control unit that controls a switching element that is a component of the switching unit based on information concerning an operation of a preset load and information emitted from various detectors included in the main circuit unit so that the switching element reaches a desired on/off operational state,

wherein the main circuit unit includes a storage unit that stores at least characteristics concerning the main circuit unit, calibration values with respect to the various detectors, a production history, an operation history, and specifications.

2. The electric power converter according to claim 1, wherein, when the main circuit unit includes the switching unit, a power source unit that generates power to each unit from the DC voltage, and a rectifying unit that is provided when the DC voltage is generated from the AC voltage, the storage unit further stores a use history in which use-environment information is incorporated into the operation history of the rectifying unit, the operation history of the switching unit, and the operation history of the power source unit and lifetime information calculated from the use history.

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3. The electric power converter according to claim 1, wherein the main circuit unit and the control unit are detachably attached to each other, and a newly provided

control unit differing in a control manner can be newly attached to the single main circuit unit.